

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

LEVIN et al.

Serial. No.: 09/896,186

Filed: June 29, 2001

For: METHOD OF CONTROLLING

GENE EXPRESSION AND GENE

SILENCING

Art Unit: 1638

Examiner: MEHTA, Ashwin D.

Atty Docket: 31481A

Confirmation No.: 9567

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §1.56, Applicants wish to call the Examiner's attention to the references cited on the attached Form PTO-1449. The items listed on the enclosed Form PTO-1449 may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application.

The submission of these references is made solely for the purpose of complying with Applicant's duty of disclosure, and is not intended as a surrender of patentable subject matter nor is it intended to create prosecution history estoppel.

06/28/2005 EAREGAY1 00000088 09896186

01 FC:1806

180.00 OP

In re Application of LEVIN et al. Serial No. 09/896,186

Identification of the listed references is not to be construed an admission of

Applicants or Attorneys for Applicants that such references are available as "prior art"

against the subject application.

Applicants respectfully request that the Examiner review the foregoing references

and that the references be made of record in the file history of the application.

The Examiner is requested to consider the foregoing information in relation to this

application and to indicate that each reference was considered by returning a copy of the

initialed PTO 1449 forms.

The Commissioner is authorized to charge \$180.00 for payment of this submission

pursuant to 37 C.F.R. § 1.17(p), to Applicant's credit card. A Credit Card Payment Form is

attached hereto. The Commissioner is authorized to charge any additional fees under 37

C.F.R. §1.17 that may be required, to Deposit Account No. 50-1744 in the name of Syngenta

Biotechnology, Inc.

Respectfully submitted,

Many Kahefuda

Mary Kakefuda

Attorney for Applicant

Registration No 39,245

Syngenta Biotechnology, Inc.

P. O. Box 12257

3054 East Cornwallis Road

Research Triangle Park, NC 27709-2257

Telephone: 919-765-5071

Date: 6/22/05

-2-

PTO/SB/17 (10-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNDER The Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ATENT &

Complete if Known TRANSMITTAL 09/896,186 **Application Number** June 29, 2001 for FY 2005 Filing Date LEVIN First Named Inventor Effective 10/01/2004. Patent fees are subject to annual revision. **Examiner Name** MEHTA, Ashwin D. Applicant claims small entity status. See 37 CFR 1.27 Art Unit 1638 (\$) 180.00

TOTAL AMOUNT OF PAYMENT (\$) 180.00 Attorney Docket No. 31481A								
METH	OD OF PAYMENT (check	all that apply)				FEE	ECALCULATION (continued)	
Check	Credit card Money Order	Other None	3. ADDITIONAL FEES					
Deposit A			<u>Large</u> i	Entity	Small	Entity		
Deposit			Fee Code	Fee (\$)		Fee (\$)	Fee Description	Fee Paid_
Account Number	50-1744		1051	130	2051		Surcharge - late filing fee or oath	
Deposit Account	Syngenta		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name The Director is	authorized to: (check all that a	oply)	1053	130	1053	130	Non-English specification	
	· · · · · · · · · · · · · · · · · · ·	lit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any	additional fee(s) or any underpay	ment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee	(s) indicated below, except for th	e filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after	
to the above-id	entified deposit account.		4054	110	2251	EE	Examiner action Extension for reply within first month	
	FEE CALCULATION	ł	1251 1252	430	2252	55 215	Extension for reply within second month	
1. BASIC F		·	1252	980	2252	490		
Large Entity S Fee Fee	Small Entity Fee Fee Fee Description	Fee Paid		1,530	2254	765		
Code (\$)	Code (\$)		i	2.080	2255		Extension for reply within fifth month	
	2001 395 Utility filing fee		1401	340	2401	.,	Notice of Appeal	
	2002 175 Design filing fee		1402	340	2402		Filing a brief in support of an appeal	
1003 550	2003 275 Plant filing fee	.	1403	300	2403		Request for oral hearing	
	2004 395 Reissue filing fe	<u> </u>	•	1,510	1451		Petition to institute a public use proceeding	
1005 160	2005 80 Provisional filing		1452	110	2452		Petition to revive - unavoidable	· · · · · ·
	SUBTOTAL (1) (\$) 1452 110 2452 55 Petition to revive - unavoidable 1453 1,330 2453 665 Petition to revive - unintentional							
2. EXTRA (CLAIM FEES FOR UTILIT	Y AND REISSUE	1501	1,370	2501	685	Utility issue fee (or reissue)	
	Ext <u>ra Claim</u> s	below Fee Paid	1502	490	2502	245	Design Issue fee	
Total Claims	-20** = X		1503	660	2503	330	Plant issue fee	
Independent Claims	-3** = L X L		1460	130	1460	130	Petitions to the Commissioner	
Multiple Deper	ndent	=	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity		A!	1806	180	1806		Submission of Information Disclosure Stmt	\$180.00
Fee Fee Code (\$)	Fee Fee Fee Descrip Code (\$)		8021	40	802	1 40	Recording each patent assignment per property (times number of properties)	
1202 18 1201 88	2202 9 Claims in exce 2201 44 Independent ci	aims in excess of 3	1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 300	•	dent claim, if not paid	1810	790	2810	395	For each additional invention to be	
1204 88	2204 44 ** Reissue inde over original	ependent claims patent	1801	790	2801	395	examined (37 CFR 1.129(b)) Request for Continued Examination (RCE)	
1205 18	2205 9 ** Reissue clai and over orig	ms in excess of 20 jinal patent	1802	900	1802	900	, ,	
	•		Other	fee (sp	ecify) _			
**or numbe	SUBTOTAL (2) r previously paid, if greater; For R	(\$) Reissues, see above	*Red	uced by	Basic	Filing F	ee Paid SUBTOTAL (3) (\$) 180.0	00
							(Complete (if applicable))	
JUDMILLIED	SUBMITTED BY (Complete (if applicable))							

SUBMITTED BY

Name (Print/Type)

Mary Kakefuda

Registration No. (Attorney/Agent)

Signature

Registration No. (Attorney/Agent)

Date

6/22/05

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE tion of information unless it displays a valid OMB control number. Paperwork Reduction Act of 1995, no persons are required to respond **Application Number** 09/896,186 TRANSMITTAL Filing Date June 29, 2001 First Named Inventor **FORM** LEVIN Art Unit 1638 **Examiner Name** MEHTA, Ashwin D. (to be used for all correspondence after initial filing) Attorney Docket Number

Total Number	r of Pages in This Submission	7 Automey Booker Hum	31481A	
		ENCLOSURES (Che	ck all that apply	y)
Fee Tr	ransmittal Form	Drawing(s) Licensing-related Paper	s	After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences
Extens Expres Informa Certifie Docum Reply (dment/Reply After Final Affidavits/declaration(s) sion of Time Request as Abandonment Request ation Disclosure Statement	Petition Petition to Convert to a Provisional Application Power of Attorney, Reversional Disclaimer Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table Remarks	ence Address	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): PTO/SB/08a; Fee Transmittal Form PTO/SB/17; Credit Card Payment Form; Receipt postcard; 23 reference documents
	SIGNA	TURE OF APPLICANT, A	TTORNEY, (OR AGENT
Firm Name	Syngenta Biotechnology,	Inc.		
Signature Many Kahefular				
Printed name Mary Kakefuda, Attorney for applicant				
Date	Jone 22, 20	∞ <i>⊊</i>	Reg. No.	39,245
	c	ERTIFICATE OF TRANSM	MISSION/MA	ILING
				sited with the United States Postal Service with P.O. Box 1450, Alexandria, VA 22313-1450 on

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

June 22, 2005

the date shown below:

Typed or printed name

Susan D. Holder

Signature

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Sheet 1 of 3



Confirmation Number

Application Number	09/896,186
Filing Date	June 29, 2001
First Named Inventor	LEVIN
Art Unit	1638
Examiner Name	MEHTA, Ashwin D.
Attorney Docket Number	31481A

	U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	DOCUMENT NUMBER Number-Kind Code ²	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	Α	US-						

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applilcant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	T ⁶			
	110.	Country Code ³ Number ⁴ Kind Code ⁵	MM-DD-YYYY		Figures Appear				
	В					V			

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т⁰				
	С	GenBank Accession No. AC002341. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1				
	D	GenBank Accession No. AC019012. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url; http:="" www.ncbi.nlm.nih.gov=""></url;>	1				
	E	GenBank Accession No. AC021851. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1				
	F	GenBank Accession No. AC027248. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1				
	G	GenBank Accession No. AC090282. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	*				
	Н	GenBank Accession No. AC129302. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1				

_		
f	Examiner	Date
	Signature	Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO **Application Number** 09/896,186 INFORMATION DISCLOSURE Filing Date June 29, 2001 STATEMENT BY APPLICANT First Named Inventor **LEVIN** Art Unit 1638 (Use several sheets if necessary) **Examiner Name** MEHTA, Ashwin D. Sheet 2 of 3 Confirmation 9567 31481A Attorney Docket Number

Number

	ı	GenBank Accession No. AF003142. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	~
	J	GenBank Accession No. AF531179. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	*
	К	GenBank Accession No. AL928739. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	✓
•	L	GenBank Accession No. ATCHRIV37. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	✓
	М	GenBank Accession No. ATF18A5. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	*
	N	GenBank Accession No. ATFCA0. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1
	0	GenBank Accession No. ATH404476. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1
	Р	GenBank Accession No. AY464613. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1
	Q	GenBank Accession No. AY530745. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1
	R	GenBank Accession No. BT010908. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1
	S	GenBank Accession No. BX322612. [online], retrieved on June 21, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	~
	Т	GenBank Accession No. CNS0A2FQ. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	*

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication

at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria. VA 22313-1450. P.O. Box 1450, Alexandria, VA 22313-1450.

Under Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Application Number	09/896,186
INFORMATION DISCLO	SURE		Filing Date	June 29, 2001
STATEMENT BY APPLIC	CANT		First Named Inventor	LEVIN
			Art Unit	1638
(Use several sheets if necessary)			Examiner Name	MEHTA, Ashwin D.
Sheet 3 of 3	Confirmation	9567	Attorney Docket Number	31481A

Number

υ	GenBank Accession No. NM_059055. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	~
V	GenBank Accession No. NM_117461. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	*
w	GenBank Accession No. NM_128962. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	~
Х	GenBank Accession No. NM_148316. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	✓
Υ	GenBank Accession No. NM_202814. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""></url:>	1
	v w	Internet: <url: http:="" www.ncbi.nlm.nih.gov=""> GenBank Accession No. NM_117461. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""> GenBank Accession No. NM_128962. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""> GenBank Accession No. NM_148316. [online], retrieved on June 20, 2005]. Retrieved from the Internet: <url: http:="" www.ncbi.nlm.nih.gov=""> GenBank Accession No. NM_202814. [online], retrieved on June 20, 2005]. Retrieved from the</url:></url:></url:></url:>

7			
Examiner	•	Date	
LACITITIES		Date	
Signature		Considered	
Signature		Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant: 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.